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#	Date Opened	Category	OIC	Original Due Date	Revised Due Date	Date Closed	Priority	Action Item	Update	
145	6-Mar-03	Manufacturing	С			18-Sep-03	₩ 1.39	Equipment Suppliers - payment terms	9/18/02 - Send E-mail to Russ, Scott Payne, Matt Solk with terms and conditions. 9/9/03 - Urgent VME 8/7/03 - E-mail follow-up 7/17/03 - Message to Don to find out if information would be available prior to Tuesday. 6/17/03 - Spoke to Don Robinson. He is going to be	
146	6-Mar-03	Supply Chain	С					Equipment Suppliers MOVED TO MFG ACTION ITEM LIST 3/20/03 - ITEM #20	oncether a list of the information that he can share 3/6/03 - Can Hayes get an example of an equipmen purchase contract. Specifically, what triggers payment. Is it PPAP on site, run at rate, etc?	t D. Lewis
147	6-Mar-03	Supply Chain	С			23-Oct-03		Have estimators look at current Hayes master cylinders and develop ballpark estimates of how much Delphi would expect it to cost.	12/5/03 - Resent information to Warczak, Dudan, Nelson. 9/29/03 - Sent "hbrnc estimate.xls" to Russ 9/26/03 - Held review. Elliott to send information to Hayes. 9/11/03 - Will be ready to review on 9/18. 8/20/03 - Schedule during the same week of design	Layman
148	6-Mar-03	Supply Chain	С			17-Apr-03		Long term agreements	4/17/03 - Question about right of refusal Pfeifenberger says OE's prefer to stay with current suppliers, but maintain right to pursue lowest cost. When OE's sent carryover products out for bid, the incumbent supplier is generally given the opportunity to match price prior to any re-sourcing activity. 4/14/03 - Had conversation with Steve Pfeifenberger	1 1
49	6-Mar-03	Motorcycle	С			17-Apr-03		Master cylinder seals	Delibits LTA was structured based on agreements 4/17/03 - Parts received 3/20/03 - Parts didn't make it with Bruce - Layman to send directly to Hayes. 3/6/03 - J. Layman to ship some primary and secondary master cylinder seals to Hayes along with drawings that detail the piston and bore requirements. Looking at 22.2 mm m/c as the larger	
	6-Mar-03	ABS	С			17-Apr-03		Coordinate executive ride with H-D in early April - Talladega	hore in the Haves two stans desire 3/20/03 - Date has been fixed. 4/28 in Naples, FL for engineering executives, 4/29 for PPG (product planning group) Vehicles required in Florida by 4/22. Waiting for direction from S. Allman	Elliott / Dudan
151	6-Mar-03	ABS	С			29-Sep-03		zuvo brake proposal package.	9/29/03 - Being tracked on as item #115 9/29/03 - Received in Brighton 9/11/03 - T-Sport was borrowed back by Harley - new date? 8/7/03 - Dan Haas to make arrangements to get vehicle to Brighton. 7/31/03 - Gywn promised a vehicle by the end of	Elliott / Dudan
162	6-Mar-03	ABS	С			9-Oct-03		amer (nan interiace dox.	July 99/903 - New wheel speed circuitry is installed on FL. Delphi now has a production program for DBC7.4 in 2005 that will require an active wheel speed sensor interface, 7/31/03 - Will be trying out new interface circuit in the lab prior to next meeting. 5/28/03 - Kopka has a simplified design to work with	Корка
153	6-Mar-03	ABS	С			9-Oct-03	ε	линаза тван отну чески регготталов,	R3 coctooller also waiting too harror results on VR 10/9/03 - Software verified on bench and vehicle. 10/2/03 - Layer 2 software complete. 9/22/03 - Changes in s/w required - Kevin to verify on bench prior to 9/25. 9/9/03 - Changes to layer 2 software complete. Kevin Houle to verify in lab. 7/31/03 - Fulmer and Partha Roy working on software package.	Kopka / Fulmer

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6-Mar-03	ABS	С			17-Apr-03	Prepare vehicle for HD executive ride - rotors, linings, burnish, etc	4/14/03 - Burnish complete 4/3/03 - Parts installed - burnish at TRC 3/20/03 - Confirmed, hardware is at TCB. 2 more sets of hardware should be in Brighton.	Sonnenberg
6-Mar-03	ABS	С			17-Apr-03	Replace dampers to 2003 production	4/14/03 - Calibration check-out complete 4/3/03 - Complete - need to check calibrations at TRC. 3/20/03 - Dampers are at TCB. Will be changed - week of 3/24. Direction is to build with '03 dampers, ship bike to test site for the ride, tune for ride with new dampers. 1st week of April in Talladega or last week of April in	Sonnenberg
6-Mar-03	ABS	С			1-May-03	Update on DOT 5 test status	5/1/03 - Don't pursue any DOT5 testing - especially i we get 05MY CVO - must be DOT4. 4/17/03 - HD has asked Dow to remove the "not to be used with ABS" label from their containers - H-D's largest concern is ABS at attitude. Can Delphi perform any lab-based tests to duplicate the	Elliott / Georgin
12-Mar-03	Manufacturing	С			20-Mar-03	Floor accountability - How do we make sure that manu operations are under control.	standardized work practices. To help the operator, we use visual aids, templates, and gaging wherever possible. If it's a very difficult operation or difficult to detect a non-conforming part, we will add to the process to assist the operator. In the US, we would be more likely to add an automated station. In	A. Lee
12-Mar-03	Manufacturing	С			17-Apr-03	machine capability details (AIAG ?) - quantity & requirements for run at rate	Mexico we may add more people. 4/17/03 - Faxed divisional procedure #267 to Russ 3/20/03 We exceed the AIAG manual guidelines. We fike to use a 5000 piece run for our run-at-rate. The big challenge is making sure we have castings and customer schedules to support building that many parts (that's why we don't usually have the congatuality to run this at the equipment supplier site)	A. Lee
12-Mar-03	Manufacturing	C			6-Jun-03	Snap ring detection (for master cylinders)	5/15/03 - Hayes is already working on something for snap ring detection - will be a part of the Kaizen event on the cartridge m/c. 4/17/03 - Sent Autocad dwg to Russ. Will arrange follow-up discussion with Gary Thompson as required. 3/19/03 - Asked Gary Thompson to collect	J. Elliott
12-Mar-03	Supply Chain	С			7-May-03	Supplier quality / supplier management	supplier audit format (from supplier portal) 4/23/03 - Message from Eric Bennett (supplier quality) - no regular schedule for audits. 4/22/03 - Left message with Darrell Lewis. 3/12/03 - How often do we assess our suppliers to find out if we are really receiving quality parts. Do	D. Lewis
12-Mar-03	ABS	С			2-Dec-03	Deliver FL to Hartey for long term on-road demonstration?	for 4Q03 and 1Q04. Delphi to deliver Dyna with no outriggers to Hayes by April 1, 2004 7/31/03 - Fulmer and Sonnenberg to determine wher we can hand over vehicle w/o outriggers. 5/29/03 - Timing from the point of getting a bike, When can we leave one with Harley	Fulmer / Sonnenberg
13-Mar-03	Supply Chain	С			12-Jun-03	Chrome Plating of plastic parts.	### Account Manager to aux foresther ### Strisf03 - Delphi Energy & Chassis purchasing to check for recommended suppliers. ### 5/5/03 - Try Titan Plastics. The Account Manager is Barry Miller (248) 334-4142, or mobile (248) 765-2500. (info from Perry Holdsworth) ### 4/22/03 - Left message for Perry Holdsworth (buyer Delphi-I) looking for more names 3/34/03. Bill Holls suggests Morthers Engraving.	J. Elliott

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#	Date Opened		o/c	Original Due Date		ate Closed			
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160	20-Mar-03	Manufacturing	С			21-May-03	Machining Coolant - process change process	5/5/03 - Spoke to Lisa Fulcomer (Dayton materials group) - We use soluble oil in Dayton - Lisa is not aware of any Delphi locations that are using full synthetic. 4/22/03 - Sent coolant background information to R. Dudan / M. Soik (from Ed Gubbins) 3/20/03 - Coolant information was given to Hayes	A. Lee
164	20-Mar-03	Motorcycle	С			12~Jun-03	THT Presses - Delphi equipment purchase.	during the Saltill trin. This action pertains to the 6/12/03 - Close - Buckley question 4/3/03 - J. Layman found that we are having THY Presses to build a machine for specialty casting of suspension parts and calipers. Will try to get more information. 3/20/03 - Hayes wondering if we can share information about a machine we are purchasing from	Layman
165	20-Mar-03	ABS	С			17-Apr-03	Determine what facilities are available at Naples	THT Presses (sub-limitidaus casting). They saw it 3/20/03 - We plan to check-out the bike in Naples week of 4/22/03. What is available in terms of garage, tools, hoist, office area? Also, what are the driving requirements (orientation & riding gear)	Dudan / Sonnenberg
166	20-Mar-03	ABS	С			17-Apr-03	Naples, FL - shipping information	4/17/03 - Vehicles arrived 4/3/03 - Sonnenberg to trailer 3 vehicles to Naples. 3/20/03 - How are vehicles going to be shipped to te site. Sonnenberg to check on Pilot cost. Elliott to find out how MR bike is being sent	Sonnenberg / Ellid
67 67	20-Mar-03	ABS	С				Next demonstration vehicle.	12/4/03 - HB would like to perform benchmark at TRC. (Get data for potential Monster rear program) 110/23/03 - Ducati will return from TRC by 11/26. Outrigger work will begin then. 5/29/03 - Next benchmark bike will be the Ducati ST4. Need to develop test plan and timing. Need	Fulmer / Suhre / Ackley
68	3-Apr-03	Motorcycle	С			12-Jun-03	Share information on friction material physical tests for quality assessment.	New design for outriguess 5/1/03 - Forwarded e-mail from Bill Myers regarding source evaluation. 4/22/03 - Message to Bill Myers	Elliott / Myers
160	3-Apr-03	AB\$	c		5	15-May-03	Send math data and dummy HCU to Harley for packaging	5/15/03 - Modulator was left with Jim Williams - electrical lead for Softail and VRSC. Initial comment is that the HCU is larger than he had expected. 5/13/03 - Math data transferred to Hayes. 5/5/03 - Dan Borgemenke to send to J. Lehner 4/17/03 - Left message for Kari Roth. 4/10/03 - Left modulator with R. Dudan 4/10/03 - Elitott Left JMK: for Gaordin.	Elliott / Georgin Borgemenke
170	3-Apr-03	ABS	С			12-Jun-03	Next benchmark bike - develop benchmarking plan	6/12/03 - Item closed - tracked under action item	Dudan / Sonnenberg
i71	10-Apr-03	Manufacturing	С				Value Stream Mapping Follow-up		J. Éliiott

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#	Date Opened	Category	ОС	Original Due Date	Revised Due Date	Date Closed	Action Item	Update	Responsible
172	10-Apr-03	Manufacturing	С			6-Jun-03	HB is running a lest on a full synthetic coolant.	6/12/03 - 10-12% concentration for general machining - run into issues if they drop below that range. More machines to be converted next week. 6/6/03 - Will look at less expensive synthetic. 5/15/03 - Test is going very well. 4/17/03 - Any help required? - Keep open until after 5/19 Kaizen then plan out next steps. 1st tryout on hame.	J. Elliott
173	10-Apr-03	Supply Chain	С				Follow up from Value Stream Mapping workshop	10/23/03 - This area will be the focus of an office process Kaizen in 2004. Hayes will be purchasing new enterprise software, will re-do the VSM, and perform Kaizen event. 8/20/03 - Hayes working to get software, Deb to maintain the maps. 6/12/03 - Hayes to convert VSM to electronic format.	
174	17-Apr-03	ABS	С			5-Jun-03	Can Delphi support a 2005 MY Custom Vehicle Operations program (3000 units)	6/5/03 - 2005CVO is not going to happen. ABS will be launched on an OE vehicle. 5/15/03 - CCD is in system. Pfeifenberger hopes to present to business team on 5/22. Engineering side can use a passive WSS if it can read down to 3kph (22Hz). Juarez performing bench test on passive (VR), Brighton to test new interface circuit with active sensor nrior to 5/22 husiness team mitr	
175	22-Apr-03	Motorcycle	С			12-Jun-03	M30 Off Road Caliper Stress Analysis	6/12/03 - Shih-Wei estimates 20 hours to wrap up project 5/15/03 - Still working on analysis, updating contact area in model. 4/22/03 - Initiated EWR for stress analysis (Shih-Wei Kung)	
原 原 原 原	1-May-03	ABS	С		-	5-May-03	Send pictures of modified battery tray	5/5/03 - Sent pictures to Dudan and Pfeifenberger	Efficit
177	12-May-03	Motorcycle	С			12-Jun-03	Quality Assurance of incoming shoe & lining assembly.	5/12/03 - Hayes wants to assure that pack shucking and soft material problems, etc are controlled on incoming material. Elliott to schedule meeting with Friction group during Bill Jacob's next trip to Dayton.	Elliott
178	12-May-03	ABS	С			5-Jun-03	Ride Prep for CVO team in Milwaukee	5/15/03 - Ride postponed until week of 5/26 at the earliest - Russ to confirm on 5/19. 5/8/03 - Ride tentatively scheduled for 5/22 at Hayes Need Russ to confirm.	Dudan
179	15-May-03	Manufacturing	С			9-Sep-03	What does Delphi use to monitor cell performance in realtime?	7/22/03 - Rob Shepherd helped with the Needmore tour - any IE questions for Rob? 6/17/03 - Larry Queen to join with the Needmore tour to answer IE-related questions. 6/6/03 - Contact Rolecki about Dayton tour 5/15/03 - Need to include this with the IE visit for the next Kaizen event.	J. Efliott
18Q	29-May-03	Motorcycle	С			26-Sep-03	How do we handle future analysis project requests? - Need to make sure that projects are in line with Hayes expectations from Delphi relationship.	8/20/03 - Need to develop request form to provide project scope and lay out timing expectations 6/12/03 - With assignment changes at Hayes, Russ will determine which projects get sent to Delphi.	Dudan / Elliott

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20.May.03	ABS	С			9-Oct-03		Russ to get spacer information for wheel bearing study	9/11/03 - SKF has contacted Hayes about ABS bearings. 7/31/03 - Pfeifenberger to get INA contact name from Connie. 6/12/03 - Integral bearing project is temporarily on hold. No rush for spacer information. 5/29/03 - Looking at integral bearing/sensor design,	Dudan .
20-May-03	ABS	С			9-Sep-03		BMW outriggers	would like to use enacer as a part of hearing 7/31/03 - Anyone videotape BMW ABS program on Speedvision? 5/29/03 - According to Tim Abhold, the BMW site shows outriggers. Is there anything to learn here?	
09.May-03	ABS	С			6-Oct-03		Gwyn to kick off EWO - EWO indicates that there is an approved business case and project shows up on product plan - results in HD spending	10/6/03 - Close - Issue being worked through Delphi sales. 7/31/03 - Bjorn working on this one now. 6/12/03 - H-D is having trouble with Sponster launch (Nissin) - tying up a lot of resources. 5/28/03 - Gwyn to kick off EWO - EWO indicates that there is an approved business case and project	Haas / Evans
\$ 20.May.03	ABS	С			12-Jun-03		What should next ABS motorcycle be?	shows up on praduct clan _ results in HD_spandinc_ 673/03 - Dethi to support the following builds: - Update FL (HCU, brake switches) - Build Dyna (supplied by H-D) - Build Ducati ST4s	Elliott
9	ABS	С			2-Dec-03		Which ATV makes sense for ABS build/demo	12/2/03 - ATV activity will be tracked on business opportunity sheet 10/23/03 - Peter Nelson trying to capture needs and opportunity, then Steve can bring forth business case. 9/9/03 - Steve trying to set up a visit to Arctic Cat and Polaris some time in early October.	Pfeifenberger
29-May-03	Opportunities	С			29-Sep-04		What ATV makes sense for development and Demo	6/13/103 - Pfaifanberger and Peter Notson have 5/6/04 - HB would like to plan an August/September ride event. Need to be ready with demo vehicle. 11/11/03 - Talked to Pete Nelson about right vehicle Polaris Sportsman 500+. Need fluid compliance information for the brakes for valve sizing. 11/6/03 - Decided to build an ATV and tune in	Dudan
3-1un-03	ABS	С			23-Sep-03		arder (3) 7.4 HCU's for mid-July demo vehicles	Phoenix 99/22/03 - W. Lloyd has machined bodies to support upcoming builds. 99/903 - Have compliance data on the Ducati. Will most likely use the same valve sizes as FL. All future m/c modulators will be plate units anyway. 7/31/03 - Ordered F & R calippers through dealer - W. Lloyd to measure on displacement bench.	Elliott
12_frm-03	Manufacturing	С			9-Sep-03		Set up Dayton tour	questions? 6/12/03 - Topics for Dayton Tour - General - Would like to do review PFMEA & Control Plan then tour facility - How does Delphi monitor cell performance.	J. Elliott
12_[1m_03	Manufacturing	С			11-Sep-03		Cold Heading Process	Cathor 9/11/03 - Sent some information to Russ. 6/12/03 - Does Delphi have any experience with cold heading operation? Do we purchase any cold-headed components? Hayes looking at the pivot pin on hbmc.	J. Elliott

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Date Opened		Ø/C	Original Due Date	Revised Due Date	Date Closed			
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12-Jun-03	Motorcycle	С			6-Oct-03	What is Delphi's process to determine master cylinder stroke requirement for an application and what is the test protocol for reserve stroke	10/6/03 - Closed - covered under Action Item 43. 8/20/03 - Share Delphi method in Sept (during design review visit) 6/12/03 - Hayes is assuming 30-33% reserve for DOT4 program (competition is at 27%). Harley specifies after FMVSS and GES test. What conditions does Delphi consider in the DFMEA.	Ellott
12-Jun-03	Motorcycle	С			23-Oct-03	What is Delphi's recommendation for a fluid change interval on DOT4 fluid?	10/22/03 - Forwarded message from Jean Cagas to Russ with aged fluid recipe. 10/6/03 - Message to MB Sipniewski, Scott Liest. 9/26/03 - Recipe for 10yr old brake fluid. 6/12/03 - Elliott to find out if Delphi has any guidelines. North American automotive OE's do not specify a change interval - systems are validated for	
12-Jun-03	Motorcycle	С			6-Oct-03	Master cylinder seals - what are the pros/cons of the 2 types. Floating (on the piston face) vs in a groove.	9/10/03 - Need to add as agenda item during master cylinder design review. 7/30/03 - Our primary seal is the type located on the piston face and has basically evolved from designs in the 1950's with steel cups in front of the seal. The rearward facing seal on the secondary piston is used	
12-Jun-03	Motorcycle	С			19-Sep-03	Piston manufacturing	to keen the secondary cylinder from heing 9/19/03 - Per J. Layman, cast pistons on large bore truck applications (37 & 40mm). Everything else machined & anodized. Looking at cold heading. 6/12/03 - Does Delphi do any cast piston designs? What is our piston manufacturing process?	Elliott / Layman
12-Jun-03	ABS	С			2-Dec-03	Provide quote for a smaller hydraulic unit.	12/2/03 - Quote provided to H-D - Russ given verbal quote range. 10/23/03 - Need to be kicked off for 2006 by end of November. Volume roadmap will determine whether we do the mini modulator. 10/22/03 - Price and decision date provided to Harley for 2006 program.	Elliott / Pfeifenberger
22-Jul-03	Manufacturing	С				Share MSD information from the Delphi web site.	9/22/03 Now CD in the system for the smaller 5/19/04 - send copy of material to Gene. 2/3/04 - Held training - any follow-up required? 1/15/04 - Ask Eric and Erica about room needs 1/7/04 - Feb 3 confirmed for MSD. Elliott to share travel arrangements. 12/19/03 - 1/21 not good for Erica. Planning on week of 2/2/04	J. Elliott
22-Jul-03	Manufacturing	С			6-Oct-03	Lean Equipment Standards / Equipment Philosophy	19/14/103 - Tarcetting, Ian 21 ac data for MSD. 10/6/03 - Close item, combine with action item #26. 9/11/03 - for specific equipment purchases, how do we develop the requirements? 7/122/03 - Share information on lean equipment standards. Schedule a follow-up conference call to answer any other questions about equipment billosophy.	J. Elliott
22-Jul-03	Manufacturing	С			16-Sep-03	Caliper Lube	9/16/03 - The lube that we use on our square seals for assembly is UCON Coating Fluid LB-1145-Y24 (Polyalkylene Glycol Lubricant) It is not compatible with DOT5. 9/11/03 - Share material information with Hayes. 7/22/03 - Does Hayes need any more information on the lube spray process and/or measurement	J. Elliott
22-Jul-03	Manufacturing	С			23-Oct-03	Caliper Functional Test	Russ China trip - drag tests with 1/4 turn of the rotor after apply and release 10/23/03 - Sent information to Russ, Matt, Tim, dan 10/9/03 - Hayes interested in off brake noise - any way to test? How much resolution do we have on drag. Can we use the drag bench testing to develop	J. Elliott

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99	22-Jul-03	Manufacturing	С			23-Oct-03			10/20/03 - Sent to Scott Payne 10/2/03 - Gerardo Casas following up to provide the information. 9/30/03 - Second message to Saltillo. 9/9/03 - Requested information from Saltillo. 7/22/03 - Does Hayes want/need 8.5x11 format for production reports or only interested in the poster- size?	J. Elliott
άũ	22-Jul-03	Manufacturing	С			9-Sep-03		Master Cylinder Test Parameters	9/9/03 - Cover under manufacturing action item #44 7/22/03 - Hayes would like master cylinder test parameters. Step-by-step test sequence with pressures, durations, and criteria.	J. Elliott / Frank Pirrello
)1	28-Jul-03	Motorcycle	С			22-Sep-03			9/22/03 - E-mailed response from Doty to Bill Jacob. Jacob. 8/4/03 - Message forwarded to Doty, Myers. 7/28/02 - How does Delphi certify that a new dyno is giving correct data?	Elliatt/Doty/ Myers
X2	20-Aug-03	Supply Chain	С					6 6 7 7	6/21/04 - Sent friction material information to Russ/John/Scott. 6/17/04 - Expect to have an estimate before the end of the month. 6/03/04 - Clarification, HB wants the estimate on their pad with similar material - not a generic Delphi material.	J. Elliott
03	4-Sep-03	Technical	0	31-Dec-04	30-Jun-05		M	Robust Engineering Project	K194M. Ban into some resistance to reoviding an 3/21 - HB changed the mc force load cell and everything looks good. Proceeding with noise factor study. 3/8 - Shared data with Jim. mc pressure or input force is incorrect. 3/1/05 - Elliott to meet with J. Dimsey to try to determine the source of variation.	J. Dirnsey
24	11-Sep-03	Manufacturing	С			6-May-04		Receiving Department Best Practice t 4 3 c	2/2/IME. Dimeau and Roos bains to determine the 4/29/04 - Tour complete - action item #46 opened to cover follow-up. 4/7/04 - Plant visit scheduled for 4/29. 3/25/04 - Coopersville, MI - Mitchelle Gummere is the contact. Can plan four for about 2 weeks from now. 3/5/04 - Bill has been given the ok to set up a tour. Will communicate date as soon as possible.	J. Elliott
05	11-Sep-03	Manufacturing	С			15-Dec-03		E	2/14/10A - Whatting for a response from Dal Smith. 12/2/03 - Sent info from Jeff Geist and Tim Brennaman - recommending Lamb Technicon and ATS. 11/17/03 - Follow-up e-mail to T. Brennaman. 11/10/03 - Sent info from Jim Johnstone (purch) - he recommends ATS (Ontario) and Omega (Dayton) 11/6/03 - HB more interested in flexible solutions	J. Elliott
06	11-Sep-03	Motorcycle	С			16-Sep-03		Bleeder screws & inlets	cince, they have hours then automotive you mae. 9/16/03 - Sent information from J. Hart & S. Leist 9/11/03 - Share information on torque to seal vs torque to fail and reusability.	Elliott / Hart / Leist
07	11-Sep-03	Motorcycle	С			6-Oct-03		9 L 1	10/6/03 - Closed - covered under Action Item 43. 9/17/03 - Sent cross section pictures of the Lucas design parts from Europe. Need to follow up with a discussion of the design Issues. 9/11/03 - Show Delphi designs (from Europe) - discuss design issues.	Elliott / Layman

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Date Opened	Category	QIC	Original Due Date	Revised Due Date	Date Closed	Priority	Action Item	Update	Responsible
71-Sep-03	Motorcycle	С			6-Oct-03		Delphi QTU master cylinder	10/6/03 - Closed - covered under Action Item 43. 9/15/03 - Sent x-section views of the master and the valve detail. 9/11/03 - Share information about how the device works. Need to set up meeting to discuss pros/cons and FMEA issues - compare to HB 2 stage design.	Elliott / Layman
11-Sep-03	Motorcycle	С			18-Nov-04		Drag testing	11/11/04 - Sent drag report and data with the anti- rattle springs removed. 10/7/04 - Should be completed within next 2 weeks. 9/16/04 - Waiting for bench tester availability 8/19/04 - Hayes would like to re-run test without anti- rattle springs 8/6/04 - Sent drag comparison plots 8/3/04 - Dan Hags to follow up getting floating caling	
ਰ 17-Sep-03	ABS	С			8-Mar-04		Develop plan to execute integral bearing/sensor	3/8/04 - Not going to design an integral bearing/sensor. Current design proposal is for existing bearing supplier to integrate encoder on the seal. Use a Delphi active sensor overmolded on the bearing spacer, 1/15/04 - Need bearing spec information from H-D. 1/14/04 - FAG (INA) is preparing to make a future	
26-Sep-03	Manufacturing	С			2-Dec-04		Cartridge machining optimization - Precon	bearing nitch to Harlay cost month. 12/2/04 - Close - No response from Dave Tait. 11/18/04 - Final message to D. Tait requesting summary report. 3/23/04 - Message to D. Tait to get project summary. 2/19/04 - New program and tooling tried out. Need to schedule PPAP. Dave Tait to follow-up with	D. Tait
26-Sep-03	Motorcycle	С					Design Review	Intricet summany. 11/12/03 - Held review at Hayes - Elliott to publish summary. (trying to find notes) 11/3/03 - Send meeting announcement with agenda and discussion topics. 10/22/03 - Tim Schlangen, John Layman, and Joe Elliott to attend from Delphi. Need to make agenda - particularly start and stop times.	Elliott
26-Sep-03	ABS	С					Smaller modulator demo	10/6/03 - Master codinder design review topics: 3/9/04 - Vehicle shipped to Hayes. 3/8/04 - Need to ship vehicle back to Hayes. 2/16/04 - D. Nagel working on vehicle build 2/13/04 - Bike arrived in Brighton 1/15/04 - FL will come in February, Softail will be coming in March. 1/5/04 - Russ to send 2 vehicles for mock-up	Dudan / Pfeifenberger
26-Sep-03	ABS	С			7-Oct-04		T-Sport ABS Build activity	damonstrations (Horitage Softail Classic and another 9/15/04 - Vehicle delivered to H-D. (Gwyn & Brian Schneider) 8/19/04 - Vehicle in Brighton for de-bug and prep for delivery to H-D. 8/19/04 - Sonnenberg working on performance baselines and robustness 7/1/04 - Demo at TRC	Sannenberg / Ellia
1-Oct-03	Motorcycle	С			22-Oct-03		Sealing drilled holes in the ABS modulators	hole sizes with Hayes. 10/8/03 - Sent pressed ball tooling detail to Russ. 10/6/03 - Message to Gary Thompson about ball stake tooling. 10/3/03 - Shared information from prints - hole profile, ball size. Message to Frank Pirrello about	Elliott
9-Oct-03	Powersports	С	1-Nov-04	11-Mar-05	6-Apr-05	Н	MTB hardware for Snowmobile	charing tool specifics. 4/6/05 - Elliott delivered 2nd set to John Thomas. 3/17/05 - Hubar to deliver parts on 3/18. 2/22/05 - B. Hubar (Tapemaster) promised 3/11 delivery date. 2/11/05 - PO sent to Tapemaster. Asked for delivery date. 1/18/05 - HB requesting a second set of hardware	J. Elliott

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# 2		die de la constant de	Oic	Original Due Date	Revised Due Date	Date Glosed	Priority	Action Item	Update	Responsibl
20 40 0	SO-30-8	otorcycle	С			23-Oct-03		Wear vs temperature JASO schedule for Dan Haas	10/23/03 - Sent procedure to Dan & Russ 10/22/03 - JASO C427 - message to Bill Myers to get test procedure.	Elliott
SO 100 0	20-150-16	otorcycle	С					SLA Rapid prototypes - who makes them, how do we negotiate contracts. Hayes looking at purchasing 3d printer to shorten lead time	12/18/03 - Had some machines in large tech centers. Most work is now being sent out. 12/4/03 - Message to Rick Ketrow. Print Center in Flint. 10/23/03 - How much are the operating costs on equipment - 30-40k initial how much money/time every year?	Elliott
03_Oct_03	Ma	· nufacturing	С					Six Sigma Blackbelt training	101/2/03 - Delphi ourchases SLA parts from a 4/7/04 - Only course scheduled is transactional course. Mark put us on the list for the next technical class. 3/23/04 - Still trying to talk live to M. Wirth 3/1/04 - Message to Mark Wirth about course availability. 12/18/03 - Trying to get information on upcoming	J. Elliott
23-0-4-03	Su	pply Chain	С			15-Dec-03		Support in Asia	1/2/4/03 - Mechanical parts sourced in Shanghai - Warszak to send new name 11/10/03 - Kendrew met with Stanley Wu, was planning to meet with Mee Yoke later in the week. 11/7/03 - Ellen Gu is still the correct contact in China 10/23/03 - Hayes has a new resident in Taiwan	J. Elliott
23-01-03	Su _l	oply Chain	С			16-Dec-03		Partnering in Asia	Vandrauc Stra. Can we set un a continued 12/18/03 - Closed after conference call with Craig Diem and Kirk Wan. 11/6/03 - Delphi would be interested in discussing any opportunity. Need to get definition on type of product and anticipated volumes. 10/23/03 - is there any potential to have Delphi assemble Hayes products in China or Mexico?	J. Elliott / K. Wan
23-Oct-03) M	otorcycle	С			19-Feb-04		What does Delphi do for reliability engineering training.	Elliot to follow-uo with Kirk Wen 1/15/04 - Elliott to forward e-mail from Jule. 1/6/04 - Jule recommends they take a Weibull ++ class. It gets you thinking about how to get data and what to do with it. She also offered to have the new person visit Dayton to get with our engineers for a day or two. 12/18/03 - Asked Jule Hegwood how new employees	Elliott
3-Nov-03	N ₁	otorcycle	С					Analyze data for frequency content	are trained in her group 11/5/03 - Sound clip analyzed and sent to Bill.	Shih-Wei
6-Nov-03	Mar	rufacturing	С					Coatings for taps, drills, form tools, etc.	For carbide drills, mainly TiN (Titanium Nitride - Gold in color) and TiCN (Titanium Carbon Nitride - Grey/Silver in color), For tools such as taper drills which are re- ground more often we usually use a high polish on the flutes instead of coating (over all cost is	J. Elliott F. Pirrelio
6-Nov-03	Sup	ply Chain	С			6-May-04			lass, even though tool life might not he as good 3/25/04 - Intermet Nanda Gopal 248-267-5105 - brass inserts in die cast past. 3/10/04 - Had discussion about screw threads with Gary Fulks. Need to follow-up with trip to Dayton 2/12/04 - Looking at potential for a pressed insert. 2/5/04 - Now doing tapped cast iron - any lighter alternatives?	J. Eiliott / K. Wan

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#	Date Opened		οιc	Original Dire Date	Revised Due Date	Date Closed	Priority			
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226	6-Nov-03	Supply Chain	С			18-Dec-03		cost differential between mexico and china	12/18/03 - OK for now. May get together later for more questions. 12/16/03 - Held conference call - any follow-up required? 12/15/03 - Conference call with Craig Diem set for 12/16 - 3:30pm EST. 12/3/03 - Sent some notes from discussion with C.	J. Elliott / C. Diem
N. S.	6-Nov-03	Motorcycle	С					Noise Training	Diam Need to schedule conference cell 2/3/04 - Closed - created action item #72 to cover the bicycle study 11/18/04 - Need information on the scope of the work, need the bike/parts/prints - whichever is available. 11/4/04 - Can Delphi and Hayes work together to model the bike/wheel/brake.	Elliott / Dudan
228	10-Nov-03	Motorcycle	С					Assembly Lubes Seal retraction vs lubrication Fluid & Lube Compatibility Pushback force / pushout force How applied / how much Testing to validate Lessons learned / warnings	10/24/M. Have noise problem on a bioycle - data by 3/25/04 - E-mailed summary to HB. 3/11/04 - Jean to send list 2/5/04 - Follow-up with Jean Cagas 12/4/03 - Sent information from John Hart about the lube interaction 11/10/03 - Sent preliminary information to Bill. Need to follow up with retraction interaction and	Elliott / Hart / Cagas
229	1-Dec-03	Motorcycle	С			7-Oct-04		Model a 15 stop fade schedule to help with design iterations	Compatibitiv 8/20/04 - Sent sildes. 8/19/04 - Present information - send plots set potential meeting times 6/2/04 - Mike Lee debugging the model. 5/18/04 - Mike working with Gabe Lucas to get math data that matches the vehicle temperature data. 3/23/04 - Data received from TPRL. Mike Lee	Mike Lee
230	1-Dec-03	Motorcycle	С					Does Delphi verify brake fluid performance	building a Brake Power model. 12/5/03 - Sent my comments on fluid validation. 12/4/03 - Forwarded response from Jean Cagas. 12/1/03 - Sent question to Dayton materials group.	Elliott
231	4-Dec-03	Manufacturing	С			15-Jan-04		Shainin Red X / Green Y	1/8/04 - Delphi can no longer teach Shainin principles to employees. Need to contact Shainin directly at Shainin.com. 12/18/03 - Trying to get information on upcoming training through Jule Hegwood.	J. Elliott
232	4-Dec-03	Opportunities	С			8-Apr-04		Notes from Hayes November Europe trip - Dudan, Ferrero	3/11/04 - received packages from Ducati & Malaguti. Triumph interested in ABS – Hayes is expecting to see a quote package in 2004Q1 - new vehicle – cruiser. Triumph has questions about ABS - may need to do a joint trip. Aprilia - 160,000 vehicles/year - 1/2 motorcycle - interested in ABS - expect to have 40-50% ABS hy	Dudan
233	12-Jan-04	Opportunities	С			11-Mar-04		Product Catalogues for Delphi brake parts	3/11/04 - Item closed, being covered on supply action items. 1/22/04 - Bill Jacob asked Steve Pfeifenberger to quote on 38mm calipers. 1/22/04 - Sent Drum brake, Ambrake, and Delphi caliper photos. 1/21/04 - Sent booster, master cylinder, Delphi caliper potfolios to Buse, Bill	Efficit
234	15-Jan-04	Manufacturing	С			20-Aug-04	İ	Does Delphi have any experience with acme screws in production. What do we use for taps? Any other alternatives?	8/20/04 - Send list of potential sources to Scott Nelson. 8/19/04 - Hayes has found a tool and machine to make the parts. Need to refine the tap slightly. Elliott to send list of possible acme nut sources to Scott Nelson.	J. Elliott

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235	15-Jan-04	Motorcycle	С			3-Jun-04		End of line drag test - what is resolution	5/18/04 - The production equipment uses a Lebow torque transucer, part number 1253-105- 100. 2/5/04 - Pulled up a copy of the test spec. The equipment resolution is not listed. Need to talk to th ME's.	Elliott / Geist
236	15-Jan-04	Motorcycle	С			20-Feb-04	 	ts all automotive evac/filled through the master cylinder? - Anyone doing it through the brake?	2/20/04 - Shared CSE training information with Russ and Bill. 2/5/04 - All automotive OE's evac and fill through the master cylinder. Will pull together summary of the process (times and pressures).	Elliott / Zisa
237	15-Jan-04	Motorcycle	С			3-Jun-04		Provide samples of assembly lubes being used right now. Try to get to Hayes prior to the next PTR.	5/6/04 - HB purchased samples for tryout. 3/25/04 - HB will review lube information and determine whether they want samples. 2/5/04 - Waiting for information from Jean Cagas.	Elliott / Cagas
238	15-Jan-04	ABS	С					Schedule data review at Harley after AZ baselines.	3/18/04 - Meeting held at HB. 2/23/04 - Meeting scheduled for 3/18. 2/19/04 - Russ trying to schedule a mid March review with HD to discuss performance, packaging, and DOT5 results.	Elliott / Fulmer / Sonnenberg
39	15-Jan-04	ABS	С			7-Oct-04		Develop test plan for MEOST with complete motorcycle system.	9/16/04 - Results look good on EH Pump durability. Had some early thermal failures, but later tests had no brush or bearing issues. 8/19/04 - Parts are starting on the accelerated durability - need to get estimated completion date. 6/16/04 - Elliott/Cukovecki/Schwab have a proposal	Elliott / Stanley / Schwab
40	22-Jan-04	Supply Chain	С					Provide a quote on an Ambrake 38mm caliper.	for an accelerated durability test for the mini	S. Pfeifenberger
41	5-Feb-04	Manufacturing	С		. 1	7-Oct-04		Seaf Presence - how do we detect - especially with wipers? Any detection in-line with assembly system?	reject cost to justify the investment for seal detection. May be a discussion topic during the ME trip to Hayes. 10/5/04 - Jeff gelst is back in the US. Is early November ok for Hayes? 9/16/04 - Gene Andre would prefer the week of	J. Gelst
42	5-Feb-04	Manufacturing	С			23-Mar-04		Equipment - unutilized equipment for sale - machining centers and dynos.	10111 of 25th 3723/04 - Nothing worth selling is available at this 13723/04 - Nothing worth selling is available at this time. Will keep HB in mind if anything becomes available, 2/18/04 - Alex Lee looking will provide a response.	A. Lee
43	5-Feb-04	Manufacturing	С			30-Mar-04		142848	3/30/04 - Matt Solk spoke to Al Bulemore, HB is tooking for plastic knockdowns. None availble, 3/25/04 - Must be able to put on pallet racks. Who is provider/designer of stackable dunnage. AIAG tubs for standard castings. 3/24/04 - Message to Frank West (Saginaw) about available shipping containers	l. Elliott

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5-Feb-04	Supply Chain	С						6/2/04 - FNOK quoted high to HB, may be too busy with Delphi and other resourcing from Kitco. HB will be moving its product to Florida. Initial plant assessment looked good. Share seal sizes with HB - is there any way to set up a commercial arrangement? License use of our tooling? Primary cups?	J. Elliott / P. Attenweiler
11-Feb-04	Supply Chain	С						5(6)(14 - Most of our parts actually had lower 3/11/04 - Pricing went to Bill and Russ. Steve to follow up with an e-mail. 2/12/04 - Forwarded request to Pfeifenberger. 2/11/04 - Quote request on J-Car drum brakes	S. Pfeifenberger
18-Feb-04	Supply Chain	С			6-Jan-05			11/9/04 - Delphi provided list of current suppliers for Hayes. 10/20/04 - Meeting in Dayton on Nov 9 to discuss. 9/16/04 - Elliott to put together a potential agenda 9/15/04 - Trying to coordinate a face-to-face meeting in October (Dayton) 8/20/04 - Message to Chantima and Tom loanes	
21-Feb-04	Manufacturing	С			3-Aug-04			shout how to support Hause 6/15/04 - Sent PM information to Russ and Scott 6/15/04 - Received information, need to review and send out. 6/2/04 - Reminder to Lesia Mahon to send me the file. 5/11/04 - Materials are not stocked. QN to send me the file to download.	J. Elliott
11-Mar-04	Manufacturing	С						2125IM Ordered Training Metadals from the Quality 417/04 - Per Russ - there is no longer a big push for used equipment. Elliott to send information as it becomes available. 41/104 - Trying to get asset lists for plants being closed. 3/11/04 - HB looking for a walk-behind fork truck & chip processing equipment.	J. Elliott
25-Mar-04	Supply Chain	С			6-May-04			5/6/04 - Sent notes of Russ. 3/31/04 - Dave Fanson's comments: You can't import fasteners any cheaper than you can' buy in the US (labor is a small portion of total cost - usually 10% labor cost is the breakpoint) 3 companies that look good to us are: Sundrum (India)	J. Elliott
31-Mar-04	Supply Chain	С			6-May-04			Taevano Metal (Korea). 4/2/04 - Information from Marcelo Conti - We are looking at Hankook for molded rubber parts. Mostly FNOK for lathe-cut parts. 3/3/1/04 - Dave Fanson sent a message to the commodity team leader for rubber products.	J. Elliott
8-Apr-04	Manufacturing	С						6/3/04 - PBR is not interested in the offer at this time. 6/2/04 - Question forwarded to PBR-Knoxville board of directors (Steve Davey) 4/8/04 - Any chance of getting a tour of PBR-Knoxville	J. Elliott
14-Apr-04	Motorcycle	С			4-Aug-04			Trials at York and HB lab looked good. Worried about fill level and top-off pressure. Fill process is sending contaminants from the lines to the port timing hole. 6/3/04 - Hourglass sight glass shipped sticking up, pushed in after final top off will allow air into the reservoir	Ferrero / Haes

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253	21-Apr-04	Opportunities	С			19-May-04		Does Delphi have a 180mm drum brake?	5/7/04 - Answer to Jerry Dreisewerd - no 180mm brakes still in production. 5/6/04 - Question to Andrew Keller	Elliott
254	29-Apr-04	Manufacturing	С			7-Oct-04		Follow-up questions from Coopersville tour	10/7/04 - Per Scott Payne - HB got enough value from the trip. Don't need to keep this item open any longer. 10/7/04 - Another message to Michelle 8/10/04 - Michelle expects to close out by 8/13 8/5/04 - Asked for an update. 5/2/04 - Shared with Michelle that range and/or % conduction would be accordable.	M. Gummere / J. Elliott
255 255 150	29-Apr-04	Manufacturing	С			18-Nov-04		What Does Delphi use for general clean-up in the assembly areas?	11/18/04 - The compatibility test results for the Unikleen product no longer exist. We will not be able to provide Hayes with the results. 10/7/04 - Working to get test results to forward to HB. 9/15/04 - Delphi is using Ipax 1223 Unikleen Green. Elliott to follow up with compatibility test results.	Elliott
- 25	6-May-04	Supply Chain	С			3-Jun-04		Intermet - Blue sand process	Arpaina. Haves is using each to close, us the 5/19/04 - Delphi was fooking at a potential knucke savings of \$1.50. Unfortunately, material properties did not meet our requirements. Not very consistent. HB may have better luck with smaller castings. 5/6/04 - Intermet has told HB that they are very close to production in knuckles for Delphi - 356T6 on an	
15 B	6-May-04	ABS	С			18-Nov-04		Should we begin talking about a Triumph ABS or non- Harley-owned Softail competitive build?	iron, sand casting line. Can someone from Delohi 10/7/04 - Waiting for HD sourcing decision before proceeding. 8/19/04 - Expect to use for ST4s for benchmarking and lean angle testing. Build to start in October. 6/3/04 Meeting at Ducati went really well last week. 5/19/04 - Ducati - ship vehicle to HB for new rear brake, then back to DPH for ABS build?	Elliott / Dudan / Sonnenberg
子の 第 の手	6-May-04	ABS	С			21-Oct-04		ABS Build	9/30/04 - Vehicle demo to Arctic Cat 9/16/04 - Russ to confirm when we need to be there. Tuesday afternoon 9/28 - vehicle at Mequon. Need some overview slides - 1 slide on m/c, highlight the benefits of ABS, 4-5 slides on ATV. 9/16/04 - Finally have software. Will bleed and tryou vehicle on 9/17. Will do Hi-Co and ice calibration in	E∛iott / Nagel / Reac
3.99 1	6-May-04	Opportunities	С		4-Apr-05	2-Mar-05	L.	Technology Roadmapping Discussion	Hiridhton week of 9/2/1 3/2/05 - Closed. Will re-open a new task is specific action is required. Linked braking - HB needs to scope out their project Electronic braking - HB trying to get business unit feedback to define market Electric drum brake (for golf cart?) Use some of these concepts for utility vehicle tech	R. Dudan
260	19-May-04	Manufacturing	С			3-Aug-04		What do we use for PM software in the plants	demo next year. 5/15/04 - Delphi and GM use Maximo asset management software.	J. Elliott
261	19-May-04	Manufacturing	С			7-Oct-04		Concurrent Engineering Processes - Program management	10/7/04 - Covered under H-D action items #63. 9/16 - Hayes more interested in refreshing program management process. What other tools are in the toolbox (DES). 9/15/04 - Jim Waters is the Brighton expert in SBCE - asked him for guldance. 8/20/04 - Rick not aware of training class. Will look	J. Elliott / R. Foster

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2	19-May-04	Supply Chain	С			7-Oct-04		RFQ - Lightning & cyclone	9/15/04 - Sent Vic Mohile's email to warczak, Nelson. 8/27/04 - Had phone conference with Pam Attenweiler. 8/20/04 - Set up netmeeting with PTL's, John Warczak, Scott Nelson, Pete Nelson, need to confirm Vic and Pam.	J. Elliott / M. Rede
3	19-May-04	Supply Chain	С			7-Oct-04		Brake hose crimping	#M9004. Need to schedule meeting for Eriday #127 1077/04 - HB is working directly with Harco for quotes and information (not the Delphi funded Harco Brake Systems). 9/16/04 - Can Harco supply other Delphi from the Harco Brake Systems facility 8/26/04 - Had tour and left samples at Harco for estimate. Any follow-up from them yet? 8/19/04 - Confirmed 8/26 date	J. Elliott / B. Comwell
4	19-May-04	Opportunities	С			17-Aug-04		Trike for disabled veteran	6/204 - Sent prop valve cross section views to Jim for reference. 6/104 - J. Dimsey message looking for a prop valve. 5/19/04 - HB may need assistance with a trike for a disabled veteran. Foot actuated split system.	
	25-May-04	ABS	С			15-Sep-04		Functional mini-modulator demo.	7/1/04 - Demo to Hayes on July 1 6/3/04 - Installation on FL started 5/25/04 - Received a functional mini modulator from Dayton.	Sonnenberg
6	3-Jun-04	Supply Chain	С			4-Aug-04		Benefits of the relationship	8/4/04 - This item is covered by items 30-33 from the annual review Need to get agenda out to Russ Rand, Rod, Peter, Ferrero, Warczak by phone. 6/17/04 - Next quarterly review is set for June 30. This topic will be on the agenda. 6/3/04 - John Warczac getting more pressure to look	Warczak
7	8-Jun-04	Motorcycle	С			5-Aug-04		Rotor direction of rotation - Any effect on noise? A service person has convinced sutton that he has solved noise on the front by swapping rotors. Allman needs support	(0.230 rear, 0.200 front) 6/16/04 - Results indicate very little difference between standard system and reversed rotor. 6/14/04 - Greg Stetzer submitted the job to the server over the weekend. It did not run due to some problem.	Stelzer
8	17-Jun-04	Opportunities	С			21-Oct-04		Victory conversation	6/3104. Since we have the models can we turn 9/3/6/04 - 4500 vehicles - touring bike, 20% ABS (1500 in 2008, 4000 in 2009, 4500 in 2010) 9/16/04 - Hayes received an RFQ from Polaris - including ABS, 6/17/04 - Pfeifenberger had a cruise control discussion with Polaris for the Victory. They inquired about master cylinders	Dudan / Pfeifenberger
9	30-Jun-04	Manufacturing	0		31-Aug-05			Coordinate Manufacturing System Design Workshop	3/17 - Want to push out to 3rd quarter because of Hayes support availability - delay to 9/1. 2/2/05 - Message to Gene asking him to call Erica to discuss specifics of MSD. 1/6/05 - Looking at re-scheduling (Feb 16-17? or week of March 7?) Gene to get back on dates - Focus on overall site planning. Elliott/Hobbs to contact Gene to set accordar (nepropay after 2.00pm)	G. Andre
0	30-Jun-04	Manufacturing	o		31-Aug-05		L.	Manufacturing System Design Tools - DFM/DFA, work cell design		E. Hobbs-Gutberlet

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#	Date Opened	Category	OIC	Original Due Date	Revised Due Date	Date Glosed	Priority	Action Item	Update	Responsible
271	30-Jun-04	Manufacturing	0		22-Mar-05		L	Problem solving and prevention - Six Sigma, pokeyoke Red X methodologies, DOE	12/8/04 - What would be most helpful is information on fixtures and devices used for error-proofing? Gene to build a list of needs. 11/18/04 - Working through Jeff Geist to find out what training is available. 6/30/04 - Can Delphi offer training to Hayes engineers.	G. Andre
272	30-Jun-04	Manufacturing	0		17-Mar-05		L	TPM, launch strategy, concurrent engineering, receiving quality/inspection, tooling, tool life, washing, de-burring, pokeyoke, testers/testing	Saginaw tour set up. 3/17 - Want to understand Maximo software. HB will be using Datastream. Need some hands-on time on the software application. 3/2/05 - Elliott contacted Saginaw to try to set up a PM visit.	
273	30-Jun-04	Manufacturing	0		17-Mar-05		м	Line side reviews @ Hayes	1/2/105. Leff Coiet working with Gerardo Coese to 4/20 - Sent comments to Hayes. 4/18 - Follow-up message requesting any information. 3/4 - Osterday will provide assessment by next HB meeting. 3/2/05 - Message to Geist, Hill, Wan, Reder, Osterday soliciting feedback.	J. Geist
274	30~Jun-04	Technical	0		17-Mar-05		М	Reliability testing - Assess Hayes' validation testing - make suggestions for improvements to reduce time and/or improve reliability.	1/18/04 Min mond to define necincle to initity 3/17 - Russ would be the preliminary contact - look at week of 4/11 Sent e-mail to Jule. 3/2/05 - Jule to send someone to HB for 2 days for assessment. 2/2/05 - Message to Jule regarding HB support. Looking at 3 types of testing - EOL, Audit 1/6/05 - Need to meet with Jule Hegwood to develop	J. Hegwood
275	8-Dec-04	Manufacturing	0		4-Apr-05		М	End of line testing - Assess Hayes end of line test strategy and develop plan to streamline to reduce test time	3/17 Need to work with Mark Lahti, Trying to address the H-D products - not competitive in the test area. 3/2/05 - Eiliott to line up ME support. HB needs to identify a contact	J. Elliott
276	8-Dec-04	Manufacturing	0		4-Apr-05		M	Quality audit testing - Assess Hayes audit testing (components and assemblies) and develop plan to reduce inspections.	3/3 - This item should be focussed on reducing material inspections on the shop floor and incoming inspections.	J. Elliott
277	30-Jun-04	Manufacturing	0		10-Mar-05		М	Caliper machining optimization	Yen - any follow-up required? 2/3/05 - David Yen is waiting for math data - raw casting and finished machined part. 2/2/05 - Call to David to find out if he has the drawings 1/8/05 - Gene to e-mail to David this week	G. Andre
278	30-Jun-04	Motorcycle	С			3 -F eb-05	L		1/1/105 - Sent ADP. TDP, PDP overviews to HB. 1/11/105 - Sent ADP. TDP, PDP overviews to HB. 1/12/8/04 - Need to convert training materials to PDF and send to Troy. 11/3/04 - Met with T.Tesmer and T.Abhold to talk about TDP, ADP, PDP. Need to schedule follow-up. 10/20/04 - Have the training material. Need to schedule a session for the next trip to HB. (Nov 3?)	J. Elliott
279	30-Jun-04	Motorcycle	С			3-Feb-05	L	and controlled braking.		J. Elliott

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#	Date Opened		Oic	Original Due Date	Revised Due Date	Date Glosed			
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280	30-Jun-04	Manufacturing	С			2-Feb-05	Shainin RedX consulting split into 2 items	2/2/05 - Closed - divided into action items #65 & 66 get a person to Hayes to present example of a red x project before implementing as a process for future use - overview of problem solving tools (all different tools) - Delphi &CIM expert/coach.	Elliott / Dudan / Reder
281	30-Jun-04	Manufacturing	С			18-Nov-04	Kaufman rotary dial machines	4/6/04 - All classes are hold in Bowarth Hille MI 11/4/04 - Hill/Geist not able to offer any suggestions on the Kaufman. In the past, we've had some of the issues that Hayes is seeing. For that reason, we no longer buy custom-built machines. We purchase standard Daewoos and Kitamuras. 10/21/04 - is Nov 4 ok for Hayes ME visit?	Efficit / Hill
282	30-Jun-04	Manufacturing	С			7-Oct-04	Functional life requirements / testing strategy for reliability	8/19/04 - Moduling set with Caper for 8/23 10/7/04 - Sent information to Russ. 10/5/04 - Asked Jule for information. 9/16/04 - Is there a job description/overview for reliability eng position 8/19/04 - Mike ready to get training in Dayton - set up date with Jule (4-6 week lead time) 6/30/04 - Can Delphi provide assistance developing	Verbrugge / Hegwood
263	30-Jun-04	Manufacturing	С			7-Oct-04	Evaluation of non-conforming parts	functional life requirements / testing strategy for 10/7/04 - Forwarded information to Russ. 10/5/04 - Question to Rich Wells. 9/16/04 - Is there any 3d variation in delphi? - Hayes tooking at VSA (runs in CATIA) 6/30/04 - Does Delphi do any 3D variation simulation on sub-components of an assembly to look at the effects of component variation issues. Currently,	101
284	30-Jun-04	Manufacturing	С			15-Sep-04	Equipment Purchasing	Haves nms a lot of tests to evaluate out-of-soce 8/5/04 - Delphi can provide support, need Hayes to submit a proposal 5/30/04 - Can Delphi review equipment proposals, provide price point guidance and supplier recommendations. Particularly in the area of automation / robotics. HB is looking at purchasing a new dyno, can Delphi review the bid package and	
285.	30-Jun-04	Supply Chain	С			7-Oct-04	Cost Analysis	much different from motorcycle, there is no desire for Delphi to run a cost analysis. 9/16/04 - Message to Froning asking how he'd like to proceed. 8/23/04 - Need to check with Randy Green about m/c hoses - are they still in Dayton?	Warczak / Elliott
766	30-Jun-04	Supply Chain	С				Brake Lever	Bubber source. 8/10/04 - Will use purchasing Contact to determine best source. Close Item and track under item #23. 6/30/04 - HB feels that they pay too much for brake lavers - can Delphi help with an assessment?	Warczak / Elliott
287	30-Jun-04	Supply Chain	С			6-Jan-05	RFQ support	11/9/04 - Delphi will evaluate Hayes RFQ's to see if there is a potential to reduce cost (via specs) or to give target costs if requested. Hayes needs to keep in mind that our quoting/estimating system is notoriously slow. 10/20/04 - Meeting in Dayton on Nov 9 to discuss. 9/15/04 - Try to set up a meeting in early October (in	Narczak / Elliott
288	30-Jun-04	Supply Chain	С			18-Nov-04	Asia Sourcing Support	11/9/04 - Shared names of all suppliers that we are using in China for brakes. 10/20/04 - Meeting in Daylon on Nov 9 to discuss. 9/16/04 - send e-mail to scott nelson 9/9/04 - Had phone conversation instead of travel. Need to follow up with Darrell when he's back in the US (Sept 27)	ewis / Warczak